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County Executive

PLANNING & ECONOMIC DEVELOPMENT

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R05-16-A-043

December 16, 2015

Matthew Didier
U.S. EPA Region 5 Headquarters
77 West Jackson Boulevard
Mail Code SE-7J
Chicago, Illinois 60604-3507
Phone 312-353-2112

Stephen N. Cassin, AICP
Director

Re: FY2016 U.S. EPA Brownfields Hazardous Substances and
Petroleum Assessment Grant Application
Macomb County, Michigan

Dear Mr. Didier:

Macomb County (the County) is submitting the enclosed application for two U.S. EPA Brownfields Assessment Grants – \$200,000 for Hazardous Substances and \$200,000 for Petroleum. The County needs these grants to support the continued success of its Brownfields Program, which was first funded with a U.S. EPA Assessment Grant in FY2005 and supplemented in FY2008. The County successfully used the Assessment Grants to develop interest in acquiring and redeveloping brownfields. To date, the Assessment Grants were used to evaluate over 35 brownfield sites. Presently, the direct and indirect outcome of the assessment grant program includes over 21 sites redeveloped, approximately \$220 million leveraged in private investment, and over 3,300 temporary and permanent jobs created.

Despite the positive outcomes, urban centers within southern Macomb County are still faced with disproportionately high levels of low-income, minority populations. For example, a predominantly minority neighborhood (47% non-white) in the County's Southern Industrial Corridor (Eastpointe; Census Tract 2589) has a 16.6% unemployment rate and a median income level of just \$36,964. This is a stark contrast to the national unemployment rate (5.8%) and the national median income level (\$53,046). To address this concern, the County will focus its redevelopment efforts in three target brownfield areas in Southern Macomb where environmental conditions are disproportionately affecting minority and impoverished residents. The targeted areas are: South Industrial Corridor, Clinton River Landfills, and Waterfront Urban Area. **Additional Assessment Grant funds (hazardous substances and petroleum) are needed to help sustain the momentum of its successful brownfields redevelopment program, put its residents back to work, improve the local standard of living, and protect the Clinton River and other environmentally and economically important land and water resources in our community.**

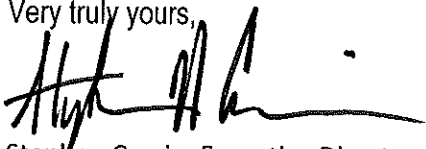
The USEPA Assessment Grants are an incentive that have attracted, and will continue to attract, new sustainable businesses to the County. Further, the County needs additional Assessment Grant funds to evaluate the nature and extent of contamination in its three target brownfield areas, and to conduct cleanup planning that supports redevelopment activities which will ultimately reduce the disproportionate impact of these brownfields on nearby residents and the County's natural resources. The County has experience leveraging Assessment Grant funds (e.g., nearly \$200 million of private investment leveraged from use of FY2005 and FY2008 grants), and understands how to utilize other financial incentives to support brownfields redevelopment (e.g. state grants and loans and USEPA RLFs). The County will use its leveraged

funding/resources to support programmatic management and community involvement, and supplement environmental assessment activities.

The following applicant information is provided as specified in the Grant Guidelines:

- a. **Applicant Identification:** Macomb County, One S. Main Street, Mt. Clemens, Michigan 48043; Phone: (586) 469-5064.
- b. **Applicant DUNS number:** 026544713
- c. **Funding Requested:**
 - i. Grant Type: Assessment
 - ii. Federal Funds Requested: \$400,000
 - iii. Contamination: \$200,000 hazardous substances; \$200,000 petroleum
 - iv. Community-wide
- d. **Location:** Macomb County, Michigan
- e. *Not a site-specific proposal*
- f. **Contacts:**
 - i. The Project Director is Mr. Jeffrey Schroeder, who can be contacted at One S. Main Street, Mt. Clemens, Michigan 48043; Phone: (586) 469-5064; E-mail: Jeff.Schroeder@macombgov.org.
 - ii. The Project Executive is Mr. Stephen Cassin, Executive Director for Macomb County Department of Planning and Economic Development, who can be contacted at One S. Main Street, Mt. Clemens, Michigan 48043; Phone: (586) 469-5285; E-mail: Steve.Cassin@macombgov.org.
- g. **Date Submitted:** December 16, 2015
- h. **Project Period:** Three years
- i. **Population:**
 - i. 840,978 (2010 U.S. Census)
 - ii. Macomb County is a municipal form of government
- j. **Other Factors:** The Other Factors Checklist is attached.

Very truly yours,



Stephen Cassin, Executive Director – Planning and Economic Development
Macomb County

Attachments: Other Factors checklist

Appendix 3

Regional Priorities Form/Other Factors Checklist

Name of Applicant: Macomb County, Michigan

Regional Priorities Other Factor

If your proposed Brownfields Assessment project will advance the regional priority(ies) identified in Section I.E, please indicate the regional priority(ies) and the page number(s) for where the information can be found within your 15-page narrative. Only address the priority(ies) for the region in which your project is located. EPA will verify these disclosures prior to selection and may consider this information during the selection process. If this information is not clearly discussed in your narrative proposal, it will not be considered during the selection process.

Regional Priority Title(s):

Region 5: Coordinating Public Funding for Brownfields

Page Number(s): Page 11

Assessment Other Factors Checklist

Please identify (with an **X**) which, if any of the below items apply to your community or your project as described in your proposal. To be considered for an Other Factor, you must include the page number where each applicable factor is discussed in your proposal. EPA will verify these disclosures prior to selection and may consider this information during the selection process. If this information is not clearly discussed in your narrative proposal or in any other attachments, it will not be considered during the selection process.

Other Factor	Page #
<i>None of the Other Factors are applicable.</i>	
Community population is 10,000 or less.	1
Applicant is, or will assist, a federally recognized Indian tribe or United States territory.	
Targeted brownfield sites are impacted by mine-scarred land.	
Project is primarily focusing on Phase II assessments.	7-8
Applicant demonstrates firm leveraging commitments for facilitating brownfield project completion by identifying amounts and contributors of funding in the proposal and have included documentation.	
Recent (2008 or later) significant economic disruption has occurred within community, resulting in a significant percentage loss of community jobs and tax base.	3

<p>Applicant is one of the 24 recipients, or a core partner/implementation strategy party, of a “manufacturing community” designation provided by the Economic Development Administration (EDA) under the Investing in Manufacturing Communities Partnership (IMCP). To be considered, applicants must clearly demonstrate in the proposal the nexus between their IMCP designation and the Brownfield activities. Additionally, applicants must attach documentation which demonstrate either designation as one of the 24 recipients, or relevant pages from a recipient’s IMCP proposal which lists/describes the core partners and implementation strategy parties.</p>	11
<p>Applicant is a recipient or a core partner of HUD-DOT-EPA Partnership for Sustainable Communities (PSC) grant funding or technical assistance that is directly tied to the proposed Brownfields project, and can demonstrate that funding from a PSC grant/technical assistance has or will benefit the project area. Examples of PSC grant or technical assistance include a HUD Regional Planning or Challenge grant, DOT Transportation Investment Generating Economic Recovery (TIGER), or EPA Smart Growth Implementation or Building Blocks Assistance, etc. To be considered, applicant must attach documentation.</p>	
<p>Applicant is a recipient of an EPA Brownfields Area-Wide Planning grant.</p>	

RANKING CRITERIA FOR ASSESSMENT GRANTS

1. Community Need

1.a Targeted Community and Brownfields

1.a(i) Macomb County (the County) is situated in southeast Michigan, adjoining 31 miles of the Lake St. Clair shoreline (a.k.a. the 6th Great Lake). The County encompasses an area of approximately 570 square miles and is the third most populated county in Michigan. Its long history of manufacturing has contributed significant economic opportunities, but also significant challenges as the boom and bust business created many of the brownfields that now impede revitalization. The County's 2012 redevelopment plan, known as the Blue Water Initiative addresses these challenges by encompassing three core principles: environmental stewardship, economic development, and quality of life. The County successfully used its FY2005 and FY2008 USEPA Hazardous Substances and Petroleum Assessment Grants, and FY2013 Revolving Loan Fund to stimulate brownfields redevelopment, create jobs, and address existing health threats. These funds are depleted and additional assessment grant dollars are critical to evaluate the remaining brownfield sites and help sustain the momentum of the County's brownfield redevelopment program.

The County identified three targeted communities which have priority brownfields that are located near significant surface water bodies, in key economic development areas, and pose a significantly disproportionate health concern to impoverished residents: the Southern Industrial Corridor (Eastpointe), Urban Waterfront Area (Mt. Clemens, Harrison Twp), and Clinton River landfills (Utica). The County's responses to Threshold Criteria are included in Attachment 1, and a letter of acknowledgment and support from the Michigan Department of Environmental Quality (MDEQ) is included in Attachment 2.

1.a.ii. Statistics comparing the three targeted communities to County, State and National figures are below.

Table 1 – Demographic Comparison						
	Southern Industrial Corridor: Eastpointe CT* 260992589.003	Clinton River Landfills: Utica CT 260992257.011	Urban Waterfront Area: Harrison Twp CT 260992475.002	Macomb County	State of Michigan	U.S.
Population	2,637 ²	5,627 ²	1,761 ²	845,197 ²	9,886,095 ²	311,536,594 ²
Unemployment	16.5% ²	6.6% ²	7.1% ²	8.1% ²	7.8% ²	5.8% ³
Poverty Rate	33.0% ²	22.0% ²	21.4% ²	12.5% ²	16.8% ²	15.4% ²
Minority	47.0% ²	29.0% ²	8.2% ²	15.4% ²	20.7% ²	26.0% ²
Median Household Income	\$36,964 ²	\$43,977 ²	\$33,026 ²	\$53,451 ²	\$48,411 ²	\$53,046 ²
Children	33.7% ²	25.0% ²	17.4% ²	22.7% ²	23.3% ²	23.7% ²
Seniors	6.4% ²	6.1% ²	17.1% ²	14.6% ²	14.2% ²	13.4% ²
Women, Child-bearing age	23.9% ¹	26.1% ¹	18.4% ¹	19.4% ¹	19.3% ¹	20.6% ¹
*CT – Census Tract	¹ Data from 2010 U.S. Census and is available at www.census.gov ² Data from 2009-2013 American Community Survey and is available at factfinder.census.gov					

1.a.iii. The County identified three health and welfare concerns related to brownfields: 1) the concentration of brownfields located near impoverished neighborhoods; and 2) the number of brownfields near sensitive populations (neighborhoods with a high percentage of children, pregnant women, or elderly); and 3) unregulated landfills and dumps that are contributing to non-point source pollution to Clinton River, a major tributary to the Great Lakes. The County's existing brownfields program (Section 2.a.1i) identified over 200 potential brownfields in the target areas which include numerous circa-1940's vacant industrial and manufacturing buildings located in south Macomb County (e.g. cities of Warren, Center Line, and Eastpointe). The County also identified numerous known and suspected brownfields in the urban waterfront

area (Harrison Township, Mt. Clemens) and unregulated river-front landfills (Utica, Sterling Heights). At least 800 potential brownfields (including auto repair shops, machine shops, dry cleaners, manufacturing plants, junkyards, gas stations, and bulk oil facilities) were identified throughout the County through the previous assessment program, including over 80 known leaking underground storage tank (UST) sites identified by the MDEQ. The County identified the following priority brownfields, each within one of the three targeted communities, to focus the initial spending of Assessment Grant dollars.

Table 2 –Priority Sites (Health Threats)		
Priority Site (<i>Size and proximity to sensitive populations</i>)	Historic Use(s) / Possible or Known Contaminants / Current Condition	Potential Exposure Pathways and Health Effects
Former Sugar Beet Factory <i>Approx. 2 acres in downtown Mt. Clemens area (census tract 2450), adjacent to impoverished neighborhood and Clinton River.</i>	Former factory with known arsenic, lead, chlorinated volatile organic compounds (VOCs), and polycyclic aromatic hydrocarbons (PAHs), asbestos / vacant	Inhalation (VOCs, asbestos, lead) and direct contact (PAHs, PCBs, metals) / headaches, poor coordination, anemia/bone marrow problems, respiratory problems, nerve damage, liver/kidney damage, cancer
Southern Industrial Corridor <i>Numerous abandoned machine shops, automotive repair facilities, and manufacturing businesses in southern Industrial Corridor (census tract 2589, 2640, 2638), located adjacent to low-income, minority neighborhood.</i>	Former machining, automotive manufacturer / VOCs, chlorinated solvents, PAHs, metals, asbestos/ vacant since 2012	Physical hazards (vacant, blighted) Inhalation (VOCs, asbestos, lead) and direct contact (PAHs, metals) / headaches, poor coordination, anemia/bone marrow problems, respiratory problems, nerve damage, liver/kidney damage, cancer
Clinton River Landfills <i>Approx. 100 acres of unregulated dumps and landfills along the river. (census tracts 2258, 2281), located in low-income, elderly populated neighborhood. Landfilled material beneath a portion of Eppler Junior High School site.</i>	Unregulated dumps / VOCs, SVOCs, PCBs, metals, and methane gas/vacant	Physical hazards (vacant, blighted) Inhalation (VOCs, asbestos, lead) and direct contact (PAHs, PCBs, metals) / headaches, poor coordination, anemia/bone marrow problems, respiratory problems, nerve damage, liver/kidney damage, cancer

1.a.iv. The abandoned landfills, manufacturing sites, dry cleaners, and gasoline service stations are of particular concern because of methane or volatile vapor intrusion threats to occupied structures. Furthermore, abandoned buildings on the sites pose a dangerous threat to children who have uninhibited access these structures and they create refuges for criminal activity. The cumulative environmental issues in the targeted areas include: 1) the environmental justice concerns resulting from the poor health conditions created by brownfields impacting predominantly low-income, high minority, younger, sensitive populations; 2) air, water and land pollution created by a significant number of abandoned landfills, illegal dumps, manufacturing sites, dry cleaners, and gas stations; and 3) the illicit discharges of contaminants from the brownfields located along the tributaries feeding Lake St. Clair.

Health conditions in low-income communities (Section 1.a.iii) are adversely affected by environmental pollutants. The National Center for Health Statistics report *Trends in Asthma Prevalence, Health Care Use, and Mortality in the United States, 2001-2010* (May 2012), indicates that the prevalence of asthma is higher for individuals with income below the state poverty level (11.2%) than those living with incomes above the poverty level (8.7% for those 100% to 200% of the poverty level, and 7.3% for those 200% or more of the poverty level). In addition to asthma, the percentage of obesity among lower income adults (30.7% for household income below \$35,000) are higher than that those of higher income (26.6%) (*Vital and Health Statistics, Series 10, Number 249, December 2010*) USDA Urban Food Deserts (a low income area with a distance of 1 mile or greater from a grocery store with fresh fruits/vegetables) are present within the County. The redevelopment of brownfields sites offers an opportunity for the introduction of fresh food grocery stores into these impoverished and malnourished communities. Specifically, one of

the targeted low-income communities in the Industrial Corridor (CT 2582) is located in a USDA Urban Food Desert (low income and more than 1 mile from a grocery store with fresh fruits/vegetables).

Illicit discharges of industrial wastes and other contaminated storm water runoff from the County's dilapidated and vacant industrial buildings is a major concern for Lake St. Clair. These facilities are located in the manufacturing and business corridor areas along tributaries that feed into Lake St. Clair. Exacerbating the problem, in 2014, the County experienced a 100-year flood event of the Clinton River watershed that resulted in several hundreds of thousands of dollars of property damage, necessary road repairs, and further erosion of the Clinton River. This portion of the County was declared a Federal Disaster Relief area for which Federal Emergency Management Agency (FEMA) provided assistance; however, the exposed waste along the riverbank of the Clinton River in Utica remains unaddressed. The Illicit discharges and continual run off of contaminated water pose a threat to aquatic life and nearby residents in low-income, high-minority neighborhoods. For example, the contamination poses a significant threat (via direct contact and ingestion) to underprivileged neighborhood children who play on the riverbanks and beaches because they do not have access to other affordable recreational opportunities.

1.b. Impacts on Targeted Community: The priority brownfields, located near or in residential neighborhoods, schools, and/or parks within the targeted communities, negatively impact sensitive populations by potentially exposing them to numerous contaminants via direct contact, particulate ingestion, airborne particulates inhalation, and vapor intrusion pathways. Cumulatively, the effects of brownfields and pollution in Macomb County have had profound health impacts on its citizens, especially the economically disadvantaged (Table 3).

Table 3 – Disproportionate Health Effects				
Geographic Area	Elevated Blood Lead Levels in Children 5 and Under	Asthma Prevalence	Cancer Incidence Rate	Infant Mortality Rate
U.S.	3.9% ⁶	8.2% ⁵	459.8% ¹	6.1% ³
Michigan	4.5% ⁷	15.6% ⁴	488.1% ²	6.9% ³
Macomb County	5.4% ⁷ (Warren, MI)	16.9% ⁴	506.2% ²	5.7% ³

¹Michigan Department of Community Health (MDCH), Cancer Incidence per 100,000 individuals 2007-2011; ²Michigan Department of Community Health (MDCH), Cancer Incidence Rates by Race and Sex per 100,000 individuals 2009-2011; ³Michigan Department of Community Health (MDCH), Incidence per 1,000 live births 2008-2012 and CDC National Vital Statistics Report, 2014 using 2012 final data of incidence per 1,000 live births; ⁴MDCH Michigan Behavioral Risk Factor Surveillance System 2011-2013; ⁵CDC National Health Interview Survey 2004-2011; ⁶CDC Forth National Report on Human Exposure to Environmental Chemicals 2009; ⁷Annual Data Report on Blood Lead Levels in Children in Michigan 2012.

The rates of elevated blood lead levels, asthma, cancer, and infant mortality (see Table 3) in the County, demonstrate the County and its minority and sensitive populations are disproportionately impacted due to their proximity and exposure to contaminants from the County's brownfields, presenting an environmental justice issue for the County. Elevated blood lead levels in children, prevalence of asthma, and elevated cancer rates are higher in the urban communities (Warren) and the County than in the United States. It is likely the brownfields within the County's targeted communities are generating air pollutants that are contributing to the elevated asthma and cancer rates of minorities and children from poverty-stricken areas of our County, and negatively impacting the health of expecting mothers and children. Direct contact or ingestion of contaminated soil particulates in these areas may also be contributing to the elevated cancer rates and blood lead levels in children within the southern industrial corridor of the County.

The Michigan Department of Community Health reported the infant mortality rate in Macomb County is rising and was higher in 2010-2012 than it was in the previous 10 years, and the County's rate of elevated blood-lead levels in children is higher than the national rate. Children in the south Industrial Corridor are more likely to be exposed to lead particulates from buildings on brownfields and aged residential structures. Some of the highest numbers of older housing units (constructed before 1978) contain lead-based paint hazards and are located in the disproportionately impacted, targeted communities.

Another environmental concern is the migration of contaminants from brownfields to the Clinton River watershed basin and, ultimately, to Lake St. Clair. Migration of contaminants through stormwater and and/or groundwater from the County's brownfields presents a threat to water quality, sediments, and

aquatic life. Leachate and runoff from unregulated landfills along the Clinton River in Utica, Sterling Heights, and Shelby Township continue to adversely affect aquatic habitats and poses an exposure risk to residents who use the waterways for fishing and recreation. At present, the Clinton River watershed is listed as a U.S. EPA Area of Concern. The reinfusion of Assessment Grants will provide the County with the necessary funding to evaluate the extent of contamination at its priority brownfields.

1.c. Financial Need

1.c.i Economic Conditions: Local economic conditions have been made worse due to Macomb's reliance on its manufacturing core. According to the Southeast Michigan Council of Governments (SEMCOG), from 2000 to 2010, the population in Southeast Michigan decreased by 128,625 people (-2.7%). Although Macomb County experienced a total population increase (6.7%) in this period, the growth occurred in the northern, more affluent portion of the County while the population in poorer southern manufacturing areas in Eastpointe, Mt. Clemens, Warren, and Center Line remained virtually unchanged. Urban sprawl from the southern urban areas of the County to the northern rural areas of the County is exacerbating the problem. The stagnant population, unemployment, and poverty conditions in south Macomb County communities (Eastpointe, Mt. Clemens, Warren) are far worse than the rest of the County, State, and U.S. (Table 4):

Table 4 – Poverty Statistics						
	Eastpointe	Mt. Clemens	Warren	Macomb County	Michigan	U.S.
2013 Population ³	32,524 ³	16,362 ³	134,376 ³	845,197 ³	9,886,095 ³	311,536,594 ³
Population Change from 2010-2013 ¹	0.6% ¹	0.5% ¹	0.6% ¹	1.6% ¹	0.1% ¹	2.4% ¹
% Unemployment	11.6% ³	9.0% ³	9.1% ³	8.9% ²	6.7% ²	5.8% ²
% Below Poverty	22.6% ³	21.8% ³	18.2% ³	12.5% ³	16.8% ³	15.4% ³
% Minority	43.3% ³	32.6% ³	22.7% ³	15.4% ³	20.7% ³	26.0% ³
¹ Data from 2010 U.S. Census and is available at www.census.gov ² Data from Bureau of Labor Statistics (Oct 2014) and is available at www.bls.gov ³ Data from 2009-2013 American Community Survey and is available at factfinder.census.gov						

The County's tax revenue incurred a staggering 50% decline of home values from 2006 through 2012. Although housing values are beginning to recover, the taxable value (County's revenue) has not recovered due to Michigan's annual 3% cap on increasing the taxable value of homes (Proposal A). In 2014, the County's tax revenue was \$31M lower than the tax revenue in 2009. Because of Proposal A limitations, the County forecasts that it may take roughly 20 years to return to the pre-2009 tax revenue levels. This reduced revenue stream is severely restricting the County's ability to address brownfield sites. In addition to reduced tax base, the downward spiral of the manufacturing industry from 2008 to 2012 resulted not only in catastrophic job losses in the County but also the creation of several brownfields in and around residential areas. Small businesses that supported these large manufacturers have also failed, creating additional smaller brownfields scattered throughout the County's mixed-commercial and residential districts. The impact of this crisis of the 2000's decade subsequently resulted in nearly 3,000 residents losing their jobs (*State of Michigan Labor Market Information*).

The shrinking tax base and loss of jobs is creating economic and health hardships on the remaining low income, minority populations that do not have the resources to relocate. Table 5 summarizes some example Census Tracts where minority populations (Black/African American) are experiencing disproportionate financial hardship. The data directly correlates to the County's most brownfield-impacted neighborhoods. The data clearly show the classic effects of urban sprawl and unemployment: increased populations of low-income minority citizens, increased dependency on food stamp programs, and higher

numbers of abandoned and vacant houses. In a majority of County neighborhoods, the poverty and income disparity is two to three times worse than the national averages.

Table 5 – Poverty Statistics by Census Tracts							
	US Avg	CENSUS TRACT (CT) #s					
		2450	2589	2638	2640	2681	2475
		Mt. Clemens	Eastpointe	Warren	Warren	Center Line	Harrison Twp
% Below Poverty Line ¹	15.4%	33.2%	33.0%	44.1%	41.3%	22.1%	25.6%
% Black or African American ¹	12.6%	55.5%	40.0%	31.0%	51.2%	19.6%	6.3%
% Unemployment ¹	5.8%	11.1%	16.5%	12.4%	17.5%	7.5%	27.7%
Percent with Food Stamps ¹	12.4%	44.3%	40.3%	43.7%	50.1%	40.6%	32.6%
Per Capita Income ¹	\$28,155	\$16,028	\$15,608	\$15,121	\$13,584	\$19,905	\$18,067
Median Household Income ¹	\$53,046	\$21,267	\$36,964	\$27,019	\$26,929	\$34,153	\$26,545
¹ Data from 2009-2013 American Community Survey and is available at factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml							

The decrease in property values due to the presence of so many brownfields in and near these neighborhoods forces the economically disadvantaged to sacrifice their health for shelter while simultaneously inhibiting the equity growth for those that do own homes. In situations like these, residents are exposed to more health-impairing pollution while struggling to pay their bills. Eventually the declining state of their health makes working difficult, if not impossible, and their dependency on public services increases. Unfortunately, the County and state are already struggling to provide public services such as unemployment benefits or public assistance. As such, the cycle temporarily functions without a solution. The good news is the County is on the rebound and we are confident that with efficient planning and the infusion of grant funds to incentivize brownfield redevelopment, we will once again become a strong County and a destination community for employers (job creators).

1.c.ii Economic Effects: The loss of manufacturers and support businesses in the southern Industrial Corridor significantly affected neighborhood residents that depended on the jobs. Many of these workers lived in the surrounding low-income neighborhoods and without personal vehicles were dependent on jobs where they could walk, bike, or use local public transportation to get to work. In Census Tract 2642 in the Industrial Corridor, up to 80% of households have no personal vehicle (*2008-2012 American Community Survey 5-Year Estimates*). As factories and supporting businesses shut their doors, vacant, dilapidated sites multiplied. With the lost income, workers in the surrounding neighborhoods lost their homes, and vacant housing added to the blight. In Census Tract 2640, located in the Industrial Corridor, 25.4% of the housing units are vacant, which is significantly higher than the vacancy rates for the County (6.9%). These vacant properties are magnets for vandalism, theft, and drug activity, putting a strain on the city's fire and police forces and compromising the safety of neighborhoods and a future for the youth of the community.

2. Project Description and Feasibility of Success

2.a. Project Description, Site Selection, and Timing

2.a.i Project Description: Macomb County will continue its successful brownfield redevelopment program (Section 5c) by leveraging its assessment grant funds to support community partnerships, economic development initiatives, and access other financial incentives such as brownfield tax increment financing, state brownfield grants and loans, and other federal grants (e.g. Great Lakes Restoration Initiative). We will use the assessment grant to fund environmental assessments of the priority brownfields in the three targeted communities where residential, commercial, or industrial projects will reduce threats to human

health and the environment and generate new tax revenue, housing, jobs, recreational opportunities, and/or greenspace creation.

The County's has an existing brownfield program and it plans to continue its successful operation. The brownfield grant management team initially reviews applications for funding, with support from Macomb County Planning and Economic Development (MCPED) (developer and project financial viability) and environmental consultant (environmental activities, eligibilities, and costs). The following criteria are used to evaluate grant awards: adherence to the County's brownfield redevelopment strategy (Section 1a), zoning, land use, etc.; potential for job creation and retention; reuse/recycling of infrastructure and incorporation of sustainability components; and open space creation or preservation. If approved by the grant team, the application is forwarded to the Office of the Macomb County Executive for final approval.

After a site is confirmed to be eligible by the U.S. EPA, the fund recipient will be notified and the site will be assessed through performance of a Phase I Environmental Site Assessment (ESA) and/or a Phase II ESA. Phase I ESAs will be conducted according to the requirements of All Appropriate Inquiry (ASTM Standard E1527) and, where appropriate, the Michigan's voluntary cleanup program. The environmental consultant will design a Phase II ESA conforming with ASTM Standard E1903-97 and, where appropriate, the Michigan VCP rules to investigate areas of potential environmental impact. Site Assessment procedures will be instituted to ensure that the community is protected from contaminants during assessment work. Upon receipt of assessment results, the environmental consultant will work with the County, the potential developer, and community partners to devise liability management, cleanup, and site use strategies that support redevelopment efforts. After completion of initial assessment activities, additional safe use or remedial investigations may be needed to further define the extent of contamination and design environmental response actions for cleanup and safe future use of the site. The results of assessments will be disseminated to the local community through public meetings and notification of community organizations (Sections 3.a and 3.c). If public health threats are identified, the MDEQ and/or County Health Department will be notified (Section 3.b). If needed, the County will seek additional funding from local and state sources and/or the U.S. EPA (Section 2.c) for assessment activities and subsequent environmental response activities.

Assessment data will be used to determine the nature and extent of contamination; evaluate exposure pathways; conduct cleanup planning to determine appropriate mitigation/remediation strategies that are protective of human health and the environment; and support redevelopment activities. These assessments will support commercial/industrial redevelopments in areas with existing infrastructure, creating local jobs and amenities.

The public will be notified of scheduled assessment activities. A Health and Safety Plan (HASP) will be completed for each site where intrusive sampling will occur, and access to the site will be controlled with fencing and signage during assessment operations. As specified in the HASP, when subsurface samples are collected or hazardous building materials are disturbed, the release of particulates and vapors will be monitored and controlled through the use of engineering controls and specialized work practices. Decontamination water and purge water generated during groundwater sampling activities will be containerized on-site and appropriately disposed. The assessment data generated will be used to help the City and/or a developer determine how to protect the community during redevelopment activities.

Program outputs and outcomes will be regularly entered into the Assessment, Cleanup, and Redevelopment Exchange System (ACRES) database following Phase I and II ESAs, and subsequent remediation, and/or redevelopment activities.

2.a.ii. Project Timing: County staff and a qualified environmental consultant (the project team) will lead this community-oriented Assessment Grant project to support revitalization. The project team will begin by preparing an overall 36-month project budget to ensure the project remains on schedule. The project team will meet monthly to ensure individual projects are progressing, the overall project schedule benchmarks are being met, and the grant project is completed within the three-year grant cycle. The County will be responsible for day-to-day grant operations including updating and maintaining the brownfields inventory; distributing information to the community; prioritizing sites for assessment; and tracking project progress. The County will be responsible for procuring all contractual services (e.g., environmental consultant), submitting required reports to the USEPA, and managing the brownfields information.

The County will follow a specific timeline to ensure Assessment Grant funds are expended by the end of the 3-year cooperative agreement period. Within the first three months, the County will retain one or

more qualified environmental consultants in compliance with applicable federal procurement regulations. The qualified environmental consultant will assist with grant management operations, outreach, perform the assessment work, and assist with required reporting. Within the first six months, the County will host a grant “kick-off” meeting with its community partners, including those that are on the project team and prepare a Work Plan within one month of receiving notification of the Assessment Grant award. Within one month of retaining an environmental consultant and meeting with community partners, the County will secure site access and initiate assessments of target brownfields. Site access will be obtained as follows:

- For property transfers, a site access agreement will be included with the purchase agreement.
- For lender foreclosures, the County will obtain an access agreement from the lender.
- For tax foreclosures, the County will work with the lender or the Macomb County Treasurer’s Office to obtain site access.
- For sites that present an imminent threat to public welfare or the environment, the County will use its nuisance abatement authority under the Act 236, Public Acts of 1961, to obtain site access.

2.a.iii. **Site Selection:** The County selected the priority brownfields (Section 1.a.iii) because of their location within the targeted communities, their proximities to sensitive populations, and/or their condition. As the grant project progresses, other priority sites, as well as high-risk and developable sites identified by community members and community organizations (Sections 2 and 3) will be integrated into the project. The County developed a prioritization ranking system to assist in selecting additional sites for assessment based on the following factors. First, sites where available information suggests an imminent threat to public welfare or the environment exists. Second, high-opportunity brownfields (Section 1) that will help the County achieve the goals and objectives of the Blue Economy Initiative. Third, brownfields that receive interest for redevelopment or are identified as high community priorities during implementation of the Grant.

2.b. Task Description and Budget Table

2.b.i Task Descriptions:

Task 1 - Programmatic Costs: The County will provide in-kind, labor resources and supplies associated with programmatic costs, including documenting the brownfields site selection process, coordinating and conducting operational meetings, preparing quarterly reports, and other grant functions. The in-kind effort will consist of two hours per week for implementing programmatic activities, equaling an in-kind contribution of up to \$15,000 (300 hours at \$50/hour). The programmatic costs of \$4,000 (\$2,000 for each grant) include travel to send one staff person to an U.S. EPA Brownfields Conference and a brownfields training opportunity. Outputs include continuing staff training and improved brownfields knowledge.

Task 2 - Community & Stakeholder Outreach: Community outreach costs of \$6,000 are included. This includes contractual costs of \$6,000 (\$3,000 for each grant) for coordinating/conducting community involvement and outreach meetings. Effort beyond \$6,000 will be provided in-kind through additional labor and expenses (i.e. travel and supplies) needed to conduct environmental outreach meetings, draft press releases, update County websites as new information is generated, and other activities to complete the community outreach programs. Outputs include at least three public meetings and development of marketing documents that can be used to promote area brownfields and grant availability.

Task 3 - Site Assessment: Over 83% of the site assessment task budget will be used to conduct Phase II ESAs. Sites will be evaluated through performance of Phase I and/or II ESAs (conducted in accordance with All Appropriate Inquiry (ASTM Standard E1527) and other ASTM standards and practices). The costs for completing Phase I and Phase II ESAs will vary depending on the complexity and whether MDEQ compliance is required. The County estimates Phase I ESAs will cost \$3,000 to \$7,000 and Phase II ESAs will cost \$20,000 to \$60,000. The hazardous substances budget includes contractual costs of \$190,000 based on conducting six Phase I ESAs at an average cost of \$5,000 (\$30,000 total), and four Phase II ESAs at an average cost of \$40,000 each (\$160,000 total). The petroleum budget includes contractual costs of \$185,000, based on seven Phase I ESAs at an average cost of \$5,000 (\$35,000 total) and six Phase II ESAs at an average cost of \$25,000 (\$150,000 total).

Task 4 - Cleanup and Reuse Planning: The County will conduct cleanup/redevelopment planning in accordance with MDEQ programs where redevelopment is imminent. This may include preparation of cleanup plans, assessment of cleanup/redevelopment alternatives, and evaluation of institutional and

engineering controls. Contractual costs for this task are estimated at \$5,000 (hazardous substances) and \$10,000 (petroleum), based on completing one cleanup and reuse plan at one hazardous substance site and two plans at petroleum sites at \$5,000 each.

2.b.ii Budget Table

Table 6 – Program Budget Breakdown					
Hazardous Substances Assessment Grant					
Budget Categories	Task 1: Programmatic Costs	Task 2: Community & Stakeholder Outreach	Task 3: Phase I&II Assessments	Task 4: Cleanup and Reuse Planning	Total
Personnel					
Travel	\$2,000				\$2,000
Contractual		\$3,000	\$190,000	\$5,000	\$198,000
Sub-Total	\$2,000	\$3,000	\$190,000	\$5,000	\$200,000
Petroleum Assessment Grant					
Budget Categories	Task 1: Programmatic Costs	Task 2: Community & Stakeholder Outreach	Task 3: Phase I&II Assessments	Task 4: Cleanup and Reuse Planning	Total
Personnel					
Travel	\$2,000				\$2,000
Contractual		\$3,000	\$185,000	\$10,000	\$198,000
Sub-Total	\$2,000	\$3,000	\$185,000	\$10,000	\$200,000
TOTALS	\$4,000	\$6,000	\$375,000	\$15,000	\$400,000

2.c Ability to Leverage

The following table identifies local resources that the County will continue to access to support assessment and subsequent cleanup and redevelopment activities.

Table 7 – Leveraging Resources			
Source	Resources and Role	Estimated Value	Likelihood
Macomb County	Meeting rooms, educational materials, staff time for press releases, outreach meetings/hearings, website updates.	\$25,000 (500 hrs @ \$50/hr)	100%
	Staff time to document site selection process, establish document repositories and prepare/negotiate loan agreements.	\$10,000 (200 hrs @ \$50/hr)	100%
Macomb Community College	Meeting/event rooms, educational materials, marketing, outreach meetings/hearings, website updates.	\$10,000 (200 hrs @ \$50/hr)	90%
Advance Michigan IMCP	Marketing and outreach assistance, outreach efforts, and website updates.	\$15,000 (300 hrs @ \$50/hr)	80%
Brownfield Redevelopment Authority*	Tax increment reimbursement of eligible assessment, cleanup and redevelopment costs; grants and loans up to \$100,000/yr	Depends on cost of activities and value of redevelopment	100% if redevelopment occurs
Tax Increment Financing Authority*	Loans for site improvement and infrastructure (\$2,000,000/yr available)	Depends on cost of activities	100% if redevelopment occurs

Table 7 – Leveraging Resources			
Michigan Economic Development Corporation*	Tax increment reimbursement of eligible costs; grants, loans or other assistance.	Depends on cost of activities and value of redevelopment	100% if approved by MEDC

* Commitment letters attached in Attachments 3 and 4.

The following existing state and federal resources are also available by application and have been accessed by the County on other projects and will continue to be sought to supplement grant funds:

- Michigan Brownfields Grants/Loans – Grants/loans up to \$1,000,000 per site for assessment and remediation; ~ \$1.5 million in grant funds/\$10 million in loan funds are available; legislation is pending to add \$12,500,000 to the grant fund. The County used \$1M from this fund for a brownfield in Utica.
- Michigan Clean Water State Revolving Fund & Strategic Water Quality Initiative Fund: grants and loans to plan and design storm sewer infrastructure improvements and eliminate illicit discharges to the water bodies of the state. The County continues to access this fund for projects along waterways.
- Michigan Community Revitalization Program: Grants up to \$1,000,000 to support brownfields redevelopment; approximately \$50 million in grant funds available. It funds core downtown projects.
- Michigan Business Development Program: Up to \$10 million to support development and expansion of businesses creating jobs; approximately \$50 million in funds available. Currently used by County.
- U.S. EPA Brownfields RLF Grant Supplemental Funding and/or Cleanup Grants: The County can apply for supplemental RLF and/or Cleanup Grants of up to \$200,000/site for grantee-owned property.
- National Oceanic and Atmospheric Administration (NOAA) - Grants to support coastal zone restoration and habitat improvements. The County currently accesses funds from this organization.

3) Community Engagement and Partnerships

3.a. Plan for Stakeholders and Communicating Project Progress:

3.a.i. **Community Involvement Plan:** The County believes it is important to provide its citizens and community organizations ample opportunities to become informed and provide input into all phases of the Project. Following the U.S. EPA award notice for the new Assessment Grants, the County will announce the award to the community through a press release to its local newspaper, *Macomb Daily*, a notice of the County website, and advertisements on local radio stations (e.g. WJLB 98 FM, WDET 101.9 and by posting the announcement in multiple locations on the Macomb County website and social media sites. The County will notify its community partners (see Section 3.c) to assist with the community notification process.

The primary post-award community input program will be focused on preparation of the grant Work Plan and final budget. After a draft Work Plan and budget are prepared, they will be made available to the public, and comments on the draft will be solicited. The document will be posted on the County's website, and hard copies will be made available at the County offices to ensure access for those without adequate information technology availability, knowledge, or experience. The document availability and solicitation of comments will be announced to the public via the County's website, newspaper notice, local radio stations, MCPED's FaceBook page and specific notification of community partners. Public comments on the proposed Project and allocation of grant funds will be accepted verbally, in writing, and publicly discussed during a meeting of the Macomb County Board of Commissioner's Planning and Economic Development committee. The County hopes to learn if residents have suggestions to modify the Project approach to better serve the community. The draft Work Plan will be modified in response to relevant comments and all comments/responses will be summarized in the final Work Plan.

Following approval of the Work Plan, the County will seek public input prior to conducting assessments at priority sites and when additional information regarding the Project is requested by citizens. County representatives will attend community organization meetings to discuss the Project and/or specific site assessments. Meetings regarding activities at priority sites will be held before site activities are initiated to familiarize stakeholders with what to expect during and after the assessment process. This process will repeat for each site to be assessed.

3.a.ii. **Communicating Progress:** The County will communicate the grant program to the affected communities using a combination of electronic and printed media, community organizations, and grass-root

efforts. Public meetings, focus groups, surveys, and interviews with residents will be held to collect ideas and develop detailed recommendations. The County will also use this model with a focus on residents in the neighborhoods of the targeted communities during the Assessment Grant project.

The Plan for involving the affected community will include three primary efforts: 1) notification of Grant award, 2) “kick-off” meeting and initial outreach, 3) on-going education and communication. The County’s residents rely on local newspapers, radio stations, and social media outlets to receive day-to-day news on issues that affect them; therefore, notification of the grant award will be accomplished through:

- Issuing an initial press release to the *Macomb Daily* and Advisor & Source newspaper. The City will also place advertisements on the local television station (WXYT) and local radio station (e.g. WJLB 98 FM) to reach residents at every educational level and those without internet service. If the County learns of specific language or disability needs, it will provide the required support. For instance, in communities with high Hispanic populations, the County will produce community outreach materials in Spanish for public announcements and meeting notices.
- Notifying the key community-based organizations that will have an active role in the project such as Macomb Chamber of Commerce and Automation Alley (see 3c for full list). Several of the organizations will publish notification about the grant award on their websites and newsletters.
- Posting notification of the award and Brownfield Program information on the County’s website.

Second, the County will host an initial public kick-off meeting at an appropriate, centralized public venue (e.g. public library in the affected City) to acquaint the targeted communities, key community organizations, environmental organizations, educational institutions, and the general public with the grant project. The County will educate the organizations on the program and solicit input on brownfields and projects with the highest degree of community interest for assessment and/or redevelopment. The outcomes of the meeting will be distributed through the County’s website and newsletter. Copies of project documents will be posted on the County’s website, and hard copies will be available at its’ Planning Department to ensure access for those without information technology access. Public comments will be accepted verbally and in writing at the offices of the Project Manager and at an initial public kick-off meeting to be held at the County offices to acquaint citizens, community leaders, business and citizen groups, and other stakeholders with project goals and operational principles. The draft Work Plan will be modified, as appropriate, in response to relevant comments. Comments and responses will be summarized in the final Work Plan. The County will continue education and outreach activities throughout the program including: developing and hosting a brownfield workshop within the first year of the grant program; soliciting community input; and providing regular updates on program progress through the County’s website. Additionally, the County will continue to issue press releases about the grant project to local newspapers.

Following completion of an assessment, assessment and cleanup/reuse information will be provided to appropriate community and project stakeholders, including results of the assessments, and explaining health and environmental impacts of findings. If health threats are identified, the Macomb County Environmental Health Department (Health Department) and MDEQ will become a partner in community involvement and education (Section 3.b). When cleanup and/or redevelopment planning is initiated for a site, more intensive involvement activities, including explanations of plans and solicitation of comments and feedback, will be implemented. At the close of the project, the County will provide a final report to the community summarizing project outputs and outcomes.

3.b. Partnerships with Government Agencies

3.b.i The County will continue its existing strong partnerships with local and state environmental/health agencies to ensure that the project is successful. The Health Department has been actively involved in education/notification, testing and monitoring, and exposure evaluations for the County. The Health Department is currently involved in testing blood-lead levels in children in south Macomb County. The Health Department is also working to acquire a Community Development Block Grant (CDBG) grant that will provide additional funding for lead investigations for children found to have elevated blood-lead levels.

The partnership established with MDEQ through the County’s existing brownfields and assessment grant programs will be continued to help ensure appropriate assessment and redevelopment of brownfields. The assessments and cleanups will be conducted in compliance with Michigan’s VCP.

Partnering with MDEQ's local district office and headquarters staff will be important for acquisition of technical support, resolution of regulatory or procedural issues, and interpretation of rules and guidance documents. The MDEQ will review and approve Closure Reports (compliance with its VCP) for sites where response actions are conducted. When tax increment financing is used to reimburse eligible costs of environmental activities, Work Plans must be reviewed and approved by the MDEQ prior to implementation. The MDEQ also manages the state's Brownfields Grant and Loan Program.

The cleanup criteria established by the MDEQ under the Michigan VCP will be used to identify and address on-site health and environmental threats posed by the identified contamination. If imminent threats to human health or the environment are discovered during a cleanup project, the Health Department and/or MDEQ will be brought in as partners to provide appropriate notice, information, and services to the affected population. The expertise and experience of the Health Department will be called upon to help identify/verify offsite health threats posed by identified contamination, identify related toxicological issues and perform risk evaluations, design and conduct notification/education programs, and coordinate health testing if a brownfield site is confirmed to pose an off-site exposure risk. The Health Department will call upon the Michigan Department of Community Health if additional expertise and/or support is needed. The MDEQ will identify appropriate response actions and monitoring programs to mitigate the threats.

There are no USEPA Environmental Workforce Development and Job Training programs currently operating in the County. However, the County continues to participate in the U.S. Economic Development Administration's (EDA) Investing in Manufacturing Communities Partnership (IMCP) through Advancing Macomb (Attachment 3). Advancing Macomb, a community growth organization compiled of businesses leaders, will leverage IMCP and other funding mechanisms to promote new business, jobs, and improved community life. The partners of the Assessment Grant program, including Macomb Community College, Macomb Chamber of Commerce, and Advancing Macomb (Section 3c), will assist with identifying funding programs and providing job training, redevelopment collaboration, and environmental outreach.

3.b.ii Partnerships with Government Agencies: The County will also be supported by Planning Department staff to ensure that sustainable and equitable development goals are met. The Planning Department will support the County's brownfield program by providing guidance to optimize existing infrastructure and identify appropriate re-use of sites in relation to the surrounding neighborhoods. The County's engineer will offer guidance on stormwater pollution prevention measures such as bioswales and rooftop rain gardens during redevelopment planning and will review stormwater pollution prevention plans at sites where grading or construction occurs.

3.c. Partnerships with Community Organizations: The County identified the following organizations as project partners.

3.c.i. Community Organization Description and Role

Macomb Community College (MCC) is a publically funded and community-based institution that continues to be committed to helping the County train and educate students on environmental stewardship and work-force related topics. MCC will provide training, marketing, outreach, alternative energy grant assistance, meeting facilities, and employment opportunities for the grant program.

Advancing Macomb is a community growth organization, compiled of many business leaders, that supports the County's corporate, institutional, non-profit and public communities. Advancing Macomb's role in the program will be: provide a network to communicate and advertise the Assessment Grant objectives, promote inter-governmental collaboration, identify business and community partnerships, and educate and helping entrepreneurs in accessing and utilizing the grant funds.

Macomb Habitat for Humanity raises money through various charities to help low-income and minority neighborhoods in Macomb County. Habitat for Humanity will be one of several community-based organizations that will help the grant program reach residents in target cleanup areas. Proposed low income housing is planned for brownfield areas within the Southern Industrial Corridor (Warren, Eastpointe) and in the Waterfront areas (Mt Clemens). Habit for Humanity will play a key role in coordinating redevelopment plans, communicating brownfield cleanup projects, and leveraging other funds.

Clinton River Watershed Council (CRWC) is non-profit organization dedicated to promoting and enhancing the Clinton River, its watershed, and Lake St. Clair. The CRWC will assist the grant management team in identifying sites negatively impacting the river and target brownfield areas, securing redevelopments that reduce riverine impacts, and expanding the proposed trail efforts along the Clinton

River. The County is working with CRWC and municipalities to coordinate a \$4.5M EPA grant to improve river habitats within the Clinton River.

Six Rivers Land Conservancy is non-profit organization dedicated to protecting land from conversion and degradation by assisting owners and agencies with conservation easements resources/strategies. Six Rivers has and continues to acquire easements within blighted or contaminated sites. Six Rivers will assist the County with identifying brownfield cleanup opportunities and protecting valuable green space.

3.c.ii. Letters of Commitment: Attachment 4 includes letters from community organization partners.

4.0 Project Benefits

4.a. Health and/or Welfare and Environment

4.a.i. Health and/or Welfare Benefits: Addressing target brownfields will help with the County's goal of reducing health and welfare threats which will directly benefit the disproportionately affected, underprivileged residents, reducing environmental justice concerns these brownfields present. Redevelopment of these sites will greatly reduce current threats to citizens living, working, and playing in those areas. The new assessment grants will fund evaluations to characterize the threats the target brownfields pose to human health and the environment, which coincides with the County's goals of improving community living conditions (e.g. more affordable housing) and protecting natural resources. Redevelopment of the County's priority brownfields will improve the health and welfare of residents and the environment by removing and/or mitigating sources of contamination and limiting uncontrolled migration of contamination into area water resources (Table 8).

Table 8 – Health and Welfare Benefits of Redeveloping Priority Brownfields	
Priority Sites	Health and Welfare Benefits to Community
Former Sugar Beet Factory	Environmental assessments will evaluate the extent of metals, VOCs, and SVOCs that threaten an adjacent, low-income neighborhood, and the adjacent Clinton River. Cleanup will focus on mitigating direct contact and vapor intrusion concerns, and reducing contaminant migration.
Harrison Twp "Boat Town USA"	Environmental assessments will evaluate the extent of VOCs in groundwater and determine impacts to nearby elderly residents and elementary students, as well as identify threats to the Clinton River. Cleanup will be conducted and vapor extraction or barrier systems will be installed in area buildings to protect residents from inhalation exposures and reduce contaminated storm water runoff to the river.
Clinton River Landfills	Environmental assessments will evaluate the extent of volatile organic compound (VOC) and methane gas impact, and support cleanup planning that addresses direct contact and inhalation (particulate and vapor) concerns for residents and nearby Eppler Junior High School students. Remediation will reduce contaminant migration to the Clinton River. Engineering controls will be installed to support redevelopment of the site into a park.

Redevelopment of these priority brownfields utilizes equitable development principles in economically disadvantaged communities in a way that directly benefits the residents. Because this work will be completed on existing sites, residents will reap the benefits without being displaced from their homes or neighborhoods. Assessment Grant operating procedures will ensure that the community is protected from contaminants during assessment work. A Health and Safety Plan (HASP) will be completed for each site where intrusive sampling will occur and site access will be controlled during assessment operations. When subsurface samples are collected or hazardous building materials are disturbed, the release of particulates and vapors will be monitored and controlled, and decontamination water and purge water generated during groundwater sampling activities will be containerized on-site and appropriately disposed.

4.a.ii. Environmental Benefits from Infrastructure Reuse/Sustainable Reuse: The priority brownfields are located in the targeted communities: urban waterfront area, Clinton River landfill region, and the southern Industrial Corridor. Redevelopment of these brownfields epitomizes the equitable development principles of utilizing new investment in economically disadvantaged neighborhoods in a way that directly benefits the residents. The redevelopment outcomes of this project coincide with the guiding Livability

Principles¹ of increasing economic competitiveness, leveraging federal investment, and valuing and supporting the community and its neighborhoods. The redevelopment of priority brownfields will also lead to mitigation of nonpoint pollution sources and illicit discharges to surface waters, improving water and sediment quality of the Clinton River. This will result in reduction in contaminants, improving aquatic life and allowing for additional fishing and recreational opportunities.

Priority Site	Environmental Benefits
Former Sugar Beet Factory	The soil, groundwater, and/or soil gas will be assessed to identify hazardous substances and petroleum impact to facilitate remedial planning to limit: 1) vapor intrusion concerns on-site and for nearby residents, and 2) direct contact exposures. Assessing this property will aid putting this water-front site back into productive use.
Clinton River Landfills	The soil, groundwater, and/or soil gas will be assessed to identify hazardous substances to facilitate remedial and redevelopment planning to limit: 1) methane gas explosivity concerns for nearby residents and students, 2) dermal contact exposures for surface waste, and 3) leachate to Clinton River. Hazardous building materials (i.e., asbestos and lead-based paint) will be assessed. Assessing this property will aid in putting it back into use, eliminating a large vacant facility and a safety concern for the nearby neighborhood with a large population of seniors.
Abandoned Machining Businesses and Abandoned Gasoline Stations in Industrial Corridor	The soil, groundwater, and/or soil gas will be assessed to identify hazardous substances and petroleum impact to facilitate remedial planning to limit 1) vapor intrusion concerns on-site and for nearby residents, and 2) direct contact exposures. Hazardous building materials (i.e., asbestos and lead-based paint) will be assessed. Cleanup planning will be conducted so that hazardous materials can be abated and structures can either be renovated or demolished. Assessing these urban corridor sites is the first step in eliminating a health hazard for the surrounding neighborhood's sensitive population (seniors).

4.b. Environmental Benefits from Infrastructure Reuse/Sustainable Reuse

4.b.i. Policies, Planning, and Other Tools: The projected brownfield redevelopments will create jobs, improve tax bases, provide recreation and greenspace, provide new market-rate and affordable housing, and revitalize urban core neighborhoods, consistent with the County's goals. Planned redevelopments in the targeted communities will support industrial, office, and/or commercial uses, which will create good-wage job opportunities for local, low-income residents. The developments also will generate new property and income tax revenues and stimulate economic activity in the targeted neighborhoods. These outcomes coincide with the guiding Livability Principles of valuing and supporting the community and its neighborhoods and increasing economic competitiveness. The projected economic benefits for specific priority sites are:

- **Southern Industrial Area:** Redevelopment of Light and heavy industrial and high-technology development will generate \$10-\$30 million in investment, generate \$200,000-\$400,000 in new property taxes yearly, and create 10 to 50 new jobs in an area desperate for job opportunities. The project would bring private investment of over \$2 million, support over 20 construction jobs, generate \$500,000 annually in new property taxes, and create new market-rate and affordable housing.
- **Urban Waterfront Area (Former Beet Factory Site):** Harrison Township's Redevelopment Plan, including Boat Town USA, will transform the existing blighted property along the shore of Lake St. Clair into a thriving marina development. The proposed marina and mixed-use redevelopment would add another \$10 million in investment, \$50,000 in annual property taxes, and 20-50 jobs.
- **Clinton River Landfill Area:** Two landfill parcels in downtown Utica are in the process of being transformed from vacant, blighted land to a major community-based entertainment and mixed-use district. Redevelopment of the landfill sites with sustainable, affordable housing will bring residents in downtown Utica and help sustain existing retail and restaurants. The combination of new housing and

¹ Principles adopted by the partnership between the U.S. EPA, United States Department of Transportation, and United States Department of Housing and Urban Development to promote smart growth.

place making amenities along the river will bring a much-needed Livability/Sustainability concept to downtown Utica. The brownfield redevelopment project would bring private investment of over \$16 million, support over 20 permanent jobs and 100 construction jobs, generate \$500,000 annually in new property taxes, and create affordable housing.

The rehabilitation and reuse of existing buildings and infrastructure (e.g. utilities, etc.) is cost-prohibitive for developers because of current industry construction costs and the lack of available sustainable development incentives. By incentivizing brownfields redevelopment in this manner, the County will direct development into areas with existing infrastructure, limiting expenditures on utility extensions, reducing the use of construction materials and air emissions from construction. The County also will use Assessment Grant funds and other brownfield incentives to encourage the incorporation of sustainable and “green” redevelopment components, such as innovative stormwater management techniques (rain gardens, bioswales, etc.), use of low-volatility building materials, and installation of energy efficient heating/cooling and lighting systems.

The County will encourage the installation of energy efficient heating/cooling and lighting systems, resulting in reduced resource use and operating costs, and encourage developments to pursue certification through the Leadership in Energy and Environmental Design (LEED) program. These sustainable development approaches will help the County reuse existing resources, reduce fossil fuel use and emissions, and minimize its energy use and waste generation during brownfields redevelopment.

4.b.ii. Integrating Equitable Development or Livability Principals: The County has and will continue to leverage funding opportunities (MDOT, MSHDA, etc.) and community organizations to build low income housing and new trails to targeted neighborhoods. Trails will bring a much-needed Livability/Sustainability concept to urban, impoverished areas of the County such as Industrial Corridor. Macomb Habitat will play an instrumental role in this Grant program with their planned 2016-2017 low income development plans.

4.c. Economic and Community Benefits:

4.c.i. Economic or Other Benefits: Brownfield redevelopment will have the following positive impacts:

- Removal and/or redevelopment of the abandoned commercial/industrial sites located within the target communities (Industrial Corridor, Urban Waterfront Area) will reduce the negative impact on home values, boost tax revenues, improve Livability conditions, and reduce the financial strain on the County’s protective forces (police/fire) caused by the need for increased monitoring of these facilities.
- Redevelopment will provide opportunities for high-tech businesses (e.g., Defense industry) that will bring high-paying jobs. These jobs, along with entertainment venues and educational institutions, will recruit young professionals to work and live in the County.
- Redevelopment of the Clinton River Landfills in Utica will add a final piece to the County’s Orchard Trail program. A new riverfront trail, community playground, and “green” parking lot is proposing for downtown Utica. These features will enhance a new baseball stadium and two-mile stretch of hike/bike trail that are under construction. These are examples of the County’s continual efforts to create new greenspace, community connectivity, and improved public health opportunities.

4.c.ii. Job Creation Potential: Currently, there is no U.S. EPA Environmental Workforce Development/Job Training program in the County. However, the County will promote local hiring of workers by posting positions in brownfield assessment, cleanup, and revitalization on Planning Department, Macomb Chamber of Commerce, and Advancing Macomb, and Automation Alley websites, and through press releases to the local newspaper. The County will also partner with the administrators at Macomb Community College to link graduates to job opportunities in brownfield assessment and revitalization.

5.0 Programmatic Capability and Past Performance

5.a Programmatic Capability: The project team will be led by a Director, with support of a Project Manager and Financial Manager and will include representatives from partner organizations (Section 2c and 3.c.i) to support administration and marketing of the program and business/development attraction. Mr. Stephen N. Cassin, AICP, Executive Director of the Planning Department and manager of environmental grant programs, will serve as the County’s Assessment Grant Director. Mr. Cassin has over 33 years of experience with economic development including the administration of \$13,000,000 federally

funded community development programs. He will be responsible for all grant operations (e.g., community relations/outreach, marketing, initial borrower/project evaluations, site/loan document preparation, reporting, etc.) and management of the environmental consultant. Mr. Jeff Schroeder, the Assessment Grant Project Manager, will support Mr. Cassin with the day-to-day communications, tracking, and documentation. Mr. Stephen L. Smigiel, Interim Finance Director and Chief Fiscal Officer for Macomb County, will serve as the RLF Financial Manager. Mr. Smigiel will be responsible for establishing and managing the financial accounts of the program and payment requests and transfers through the Automated Standard Application for Payments (ASAP) system. Mr. Cassin will represent the County/Grantee as signatory authority for all loans. Ms. Jill Smith, Macomb County's Corporate Counsel for the MC Board of Commissioners, will provide legal support to the project team for this Assessment Grant. Various other County members will provide support to the project team, as needed. These key project team members for the County have performed the same roles for the County's U.S. EPA Assessment Grants since their award in 2005 and 2008. The County's experienced U.S. EPA Assessment Grant management team will be able to streamline the administration processes of the grant, and provide capable replacement staff in the event key positions are vacated.

Using a Qualifications-Based Selection Process that complies with the applicable federal procurement regulations (40 CFR §31.36), the County will retain a highly competent environmental consultant to assist in managing and tracking the activities funded by the Assessment grant. The consultant will be experienced in all aspects of U.S. EPA Assessment Grant management and will have demonstrated extensive experience with, and understanding of, the Michigan Voluntary Cleanup and U.S. EPA Assessment Grant programs, and will have managed at least three successful brownfields redevelopment projects where multiple brownfields redevelopment financing incentives were leveraged.

5.b. Adverse Audits: The County has had no adverse audit findings with management of any Federal, State, or local grants.

5.c. Past Performance and Accomplishments:

5.c.i, 5.c.ii, or 5.c.iii.

Macomb County's brownfield redevelopment program has successfully utilized previous U.S. EPA Hazardous Substances and Petroleum Assessment Grants. In 2005, the County was awarded a U.S. EPA Assessment Grant for hazardous substances (\$200,000; ID 96584801-0). These grants were fully utilized. In 2008, the County secured an additional \$400,000 of U.S. EPA Assessment Grant dollars: \$200,000 petroleum (ID BF00E82401-0) and \$200,000 hazardous (ID BF00E82501-0). In 2013, the County was awarded a \$1,000,000 U.S. EPA RLF loan. All of the assessment grant funds have been successfully used. As of the date of this application, at least \$750,000 of the RLF has been spent, and the remaining dollars already allocated to petroleum impacted sites including the proposed Lakeshore Senior Living Center in St Clair Shores and Rose Street Redevelopment in Mt. Clemens, Michigan. In 2015, RLF funds were used to redevelop 15 acres of vacant, contaminated landfill parcels along the Clinton River in Utica, Michigan, into a community entertainment complex containing a minor league baseball stadium, parking lot, and hike and bike trail. The \$16M Utica brownfield redevelopment project was successful because of the RLF program and the County's ability to leverage approximately \$4M of state and federal funds. The leveraged funds were used for landfill engineering controls, environmental response measures, waste removal, and a new hike and bike trail.

The County has submitted and received approval for project QAPPs and has conducted community engagement programs, complied with quarterly reporting and annual financial status reporting requirements, and successfully compiled required data in the ACRES database. Grant activities have conformed to the work plans. Since 2005, the County brownfield program has secured a total of \$1,600,000 in U.S. EPA Assessment and RLF grants, which supported at least 36 brownfield projects. During this period, a total of 35 Phase I ESAs, 25 Phase II ESAs, and two asbestos surveys were conducted. In addition, 12 Baseline Environmental Assessment Reports and Due Care Plans were prepared for Michigan's VCP. The direct and indirect outcome of the assessment grant program to date is: over 21 sites redeveloped, approximately \$220 million leveraged in private investment in communities, and over 3,300 temporary and permanent jobs have been created.

ATTACHMENT 1

Threshold Documentation



FY2016 USEPA BROWNFIELDS HAZARDOUS SUBSTANCES AND PETROLEUM ASSESSMENT GRANT PROPOSAL

MACOMB COUNTY, MICHIGAN

RESPONSES TO THRESHOLD CRITERIA

1. Applicant Eligibility: Macomb County is a general purpose unit of local government.
2. Letter from State Environmental Authority: The Michigan Department of Environmental Quality (MDEQ) provided Macomb County with a letter of acknowledgment for this FY2016 Assessment Grant Proposal. The MDEQ letter is included as Attachment 2 in the Narrative Proposal.
3. Community Involvement: The County believes it is important to provide its citizens and community organizations ample opportunities to become informed and provide input into all phases of the Project. Following the U.S. EPA award notice for the new Assessment Grants, the County will announce the award to the community through a press release to its local newspaper, *Macomb Daily*, a notice of the County website, and advertisements on local radio stations (e.g. WJLB 98 FM, WDET 101.9 and by posting the announcement in multiple locations on the Macomb County website and social media sites. The County will notify its community partners (e.g. Macomb Community College, Macomb Habit for Humanity, Advancing Michigan, Clinton River Watershed Council, etc.) to assist with the community notification process.

The primary post-award community input program will be focused on preparation of the grant Work Plan and final budget. After a draft Work Plan and budget are prepared, they will be made available to the public, and comments on the draft will be solicited. The document will be posted on the County's website, and hard copies will be made available at the County offices to ensure access for those without adequate information technology availability, knowledge, or experience. The document availability and solicitation of comments will be announced to the public via the County's website, newspaper notice, local radio stations, MCPED's FaceBook page and specific notification of community partners. Public comments on the proposed Project and allocation of grant funds will be accepted verbally, in writing, and publicly discussed during a meeting of the Macomb County Board of Commissioner's Planning and Economic Development committee. The County hopes to learn if residents have suggestions to modify the Project approach to better serve the community. The draft Work Plan will be modified in response to relevant comments and all comments/responses will be summarized in the final Work Plan.

Following approval of the Work Plan, the County will seek public input prior to conducting assessments at priority sites and when additional information regarding the Project is requested by citizens. County representatives will attend community organization meetings to discuss the Project and/or specific site assessments. Meetings regarding activities at priority sites will be held before site activities are initiated to familiarize stakeholders with what to expect during and after the assessment process. This process will repeat for each site to be assessed.

4. Site Eligibility and Property Ownership Eligibility: Macomb County is requesting a community-wide assessment grant; therefore, site eligibility and property ownership eligibility criteria are not applicable.

ATTACHMENT 2

Letter from State Authority



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



DAN WYANT
DIRECTOR

November 20, 2015

Mr. Stephen Cassin, Director
Department of Planning and Economic Development
Macomb County
1 South Main, 7th Floor
Mount Clemens, Michigan 48043

Dear Mr. Cassin:

SUBJECT: Michigan Department of Environmental Quality Acknowledgment of a United States Environmental Protection Agency (USEPA) Brownfield Grant Proposals for 2016

Thank you for your notice and request for a letter of acknowledgment for the Macomb County's proposals to the United States Environmental Protection Agency (EPA) brownfield grant program. The Department of Environmental Quality, Remediation and Redevelopment Division (RRD), encourages and supports county-wide assessment, cleanup, and redevelopment efforts. The RRD recognizes Macomb County's success in utilizing their previous brownfield grants. Our review of your proposed project meets the USEPA's requirements under the proposal guidelines.

Macomb County is applying for a \$200,000 hazardous substances assessment grant and a \$200,000 petroleum assessment grant which could be used to conduct assessment activities at eligible brownfield sites and facilitate new redevelopment projects. Macomb County is also applying for a \$1 million revolving loan fund grant to support cleanup efforts. As an applicant, Macomb County is considered eligible for these grants as a general purpose unit of county government.

Should the EPA award these brownfield grants to Macomb County, it would stimulate redevelopment and reuse of underutilized and contaminated properties and improve the economic development and environmental conditions in the county. If you need further information or assistance regarding specific brownfield sites, please contact me at the number below or by email at smedleyr@michigan.gov.

Sincerely,

Ronald L. Smedley
Brownfield Redevelopment Coordinator
Brownfield Redevelopment Unit
Remediation and Redevelopment Division
517-284-5153

ATTACHMENT 3

Leveraged Funding/Resources Documentation



December 16, 2015

Mr. Stephen Cassin
Executive Director
Macomb County Planning & Economic Development
One S. Main Street, 7th Floor
Mt. Clemens, Michigan 48043

RE: Designation Letter EPA Brownfields Assessment/RLF Grant

Dear Mr. Cassin:

The Advance Michigan Investing in Manufacturing Communities Partnership (IMCP) Chair and Governing Board are pleased to support your applications for FY2016 U.S. Environmental Protection Agency (U.S. EPA) Brownfields Assessment/RLF Grants to assess and promote redevelopment of brownfield sites within Macomb County. We appreciate the opportunity to continue working with Macomb County as an ICMP community partner.

Advance Michigan's role in the EPA Grant Projects will consist of providing a network to communicate and advertise the Assessment/RLF Grant objectives, and promoting inter-governmental collaboration among our 13 county region.

Advance Michigan is committed to improving regional economic conditions, and will continue to provide its resources to support Macomb County's brownfield redevelopment efforts.

With respect,

Olga Stella
Chair, Advance Michigan
COO, Detroit Economic Growth Corporation



December 14, 2015

Mr. Stephen Cassin, Executive Director
Macomb County Planning and Economic Development
One S. Main Street, 7th Floor
Mount Clemens, MI 48043

**RE: Community Partnership Letter of Commitment for US EPA Brownfields
Assessment and RLF Grants, Macomb County, Michigan**

Dear Mr. Cassin:

The Macomb Habitat for Humanity is pleased to support your application for FY2016 EPA
Brownfield Assessment and Revolving Loan Fund Grants.

As you know, Macomb Habitat is a community resource whose mission is to provide safe, affordable homes to those in need. The vision of Macomb Habitat is to add value to the lives of those living in Macomb County by creating a better environment in which to live, recreate and conduct business. Part of our focus is to help drive economic development, enhance natural resources, and strengthen communities. Therefore, we will help Macomb County with: 1) identifying brownfield redevelopment and cleanup projects in low income areas, 2) coordinating construction plans for blighted neighborhoods, and 3) communicating cleanup strategies and projects with residents.

Macomb Habitat's role is to build homes in very low income and blighted areas of southern Warren, Clinton Township, Roseville, Mount Clemens and Eastpointe. We like to find areas where our building a home inspires those around us to begin to improve their properties, as well. That, coupled with our Brush With Kindness Program, a program that offers neighbors up to \$2000 worth of exterior repair – provided by Habitat, are reasons we especially believe in and support the grant.

Helen Hicks

President and CEO

ATTACHMENT 4

Letters of Commitment



4480 Orion Rd., 2nd Floor
P. O. Box 80902
Rochester, Michigan 48308-0902
248-601-2816
www.sixriversrlc.org
info@sixriversrlc.org

BOARD OF TRUSTEES

Mary Sclawy
West Bloomfield
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EMERITUS

Lorna McEwen
West Bloomfield

STAFF

Christopher Bunch
Executive Director

Danielle Devlin
Land Protection Director

Betsy Jagosz
Operations Manager

Meghan Prindle
Community Outreach Coordinator

WE CONSERVE, SUSTAIN AND
CONNECT NATURAL AREAS, LANDS
AND WATERS THAT MAKE THE
PLACES WE LIVE SPECIAL.

Six Rivers Regional Land Conservancy
is a private non-profit organization.
All contributions are tax-deductible as
provided by law.



December 14, 2015

Mr. Stephen Cassin
Executive Director
Macomb County Planning & Economic Development
One S. Main Street, 7th Floor
Mt. Clemens, Michigan 48043

RE: Commitment for Partnership with Macomb County for application to
FY2016 EPA Brownfield Grant and Revolving Loan Fund

Dear Mr. Cassin:

Six Rivers is pleased to offer our support to your efforts to restore brownfields in Macomb County. In addition to cleaning up contaminated properties and restoring economic capacity, these projects also help reduce pressure for green-field development, which directly compliments our mission and work.

Six Rivers has been directly involved in wetland mitigation easements with the DEQ, as well as holding easements on properties that contain some historic contamination. Following are examples of our involvement with related work:

- We have an easement on a property in Metamora that includes a contaminated site—the easement was part of the remediation process.
- We also hold easements on properties that include agricultural activities, most of which have some level of contamination on the property.
- We just concluded a project that involved the purchase of a contaminated property by Huron Clinton Metroparks as an addition to their Lake St. Clair Metropark.
- A past board member who remains active with the organization is an environmental attorney who has spent more than 40 years of his career working on contaminated property issues, and we have two other attorneys on our board who have worked on these issues.
- In the last year we have been in communication with Racer Trust about taking a role in the disposition of some of the properties coming out of the GM bankruptcy.

The purpose in pointing all of this out is to demonstrate that we are familiar with issues involved in dealing with brownfields and believe we have a role to play in their rehabilitation. Toward that end, we are glad to consider taking a role in holding conservation easements or owning preserves as part of that process.

Thank you for all of your efforts to clean-up and restore contaminated properties in Macomb County. We look to the opportunity to work with you. Please call at any time you wish to discuss a project.

Sincerely,

A handwritten signature in blue ink that reads "Chris Bunch". The signature is written in a cursive, flowing style.

Chris Bunch
Executive Director



MACOMB COUNTY HEALTH DEPARTMENT

Mount Clemens Health Center

43525 Elizabeth Road ♦ Mount Clemens, Michigan 48043

PHONE: 586-469-5235 FAX: 586-469-5885

www.macombgov.org/publichealth

Mark A. Hackel
County Executive

William J. Ridella, M.P.H., M.B.A.
Director/Health Officer

December 14, 2015

Kevin P. Lokar, M.D.
Medical Director

Stephen Cassin, Director
Macomb County Department of Planning & Economic Development
One S. Main Street
7th Floor
Mt. Clemens, Michigan 48043

Dear Mr. Cassin:

On behalf of the Macomb County Health Department, I am pleased to support the Macomb County Department of Planning and Economic Development's application for FY 2016 United States Environmental Protection Agency Brownfields Assessment Grant and Revolving Loan Fund to assess, cleanup, and promote redevelopment of brownfield sites within Macomb County.

For many years, the Health Department has received federal, state and local funding to support community household hazardous waste collections, eliminate illicit waste water discharges in our watershed, monitor water from county rivers and lakes, and conduct other activities to promote safe waste management and water quality in Macomb County. The Department's Environmental Health Division will continue to participate in the State's Clean Sweep and Pharmacy Outreach Medication Collection Programs to promote and sustain the proper disposal of unwanted pesticides and pharmaceuticals in our county.

The Health Department remains committed to improving the environmental and health conditions of our residents, and will continue to support the Department of Planning and Economic Development's Brownfield's Assessment and Redevelopment efforts by:

- Providing consultation and information on monitoring and enforcement actions necessary to prevent human exposure to any hazardous substance or pollutant from a brownfield site.
- Providing education and consultation from Environmentalists and Public Health Nurses to families with children having elevated blood lead levels.
- Providing collaborative support and environmental health support for redevelopment projects in the County.
- Providing education and consultation on critical environmental issues along the watershed and throughout Macomb County.

Please contact me at (586) 469-5510 if you need any additional information or assistance.

Sincerely,

William J. Ridella
Director/Health Officer



Macomb
Community College

Education • Enrichment • Economic Development

Discover. Connect. *Advance.*

Office of the President

December 15, 2015

Mr. Stephen Cassin
Executive Director
Macomb County Planning & Economic Development
One S. Main Street, 7th Floor
Mt. Clemens, Michigan 48043

Dear Mr. Cassin,

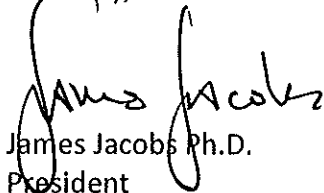
As president of Macomb Community College, I strongly support your applications for FY2016 U.S. Environmental Protection Agency (U.S. EPA) Brownfields Assessment and Revolving Loan Fund (RLF) Grants to assess and promote redevelopment of brownfield sites within Macomb County. We appreciate the opportunity to continue working with Macomb County as a community partner. Macomb Community College is committed to ensuring the economic well-being of the community we serve.

It is my understanding that Macomb County would administer the Assessment and RLF Grants if they are awarded. Given our successful partnership history in economic development efforts, to the best of our abilities we would fully support your leadership and coordination role should these grants be funded.

In support of the County's defense initiatives, the college has been very successful in securing training grants specific to the defense industry. Similarly, the college looks forward to exploring comparable opportunities in the environmental sciences and alternative energy fields.

There is a great need for this type of funding in Macomb County due to the scaling down of the automobile industry. We believe that the funding will be put to very good use, and I am pleased to offer the resources available at Macomb Community College to support this important initiative.

Sincerely,



James Jacobs Ph.D.
President

December 14, 2015

Jeffrey R. Lanier
Senior Project Environmental Engineer
13019 Pauline Dr.
Shelby Twp MI 48317

RE: Community Partnership Letter of Commitment for
U.S. EPA Brownfields Assessment Grants
Macomb County, Michigan

Dear Mr. Cassin:

The Macomb County Chamber of Commerce is pleased to support your application for two FY2016 U.S. Environmental Protection Agency (U.S. EPA) Brownfields Assessment Grants to assess and promote redevelopment of brownfield sites within Macomb County. We appreciate the opportunity to continue working with Macomb County as a community partner.

As you know, The Macomb County Chamber is a community resource that strengthens communities in Macomb County utilizing corporate, foundation, and non-profit support. The vision of The Chamber is to add value to the lives of Macomb County by creating a better environment to live, recreate, and conduct business. Our focus is to help drive economic development, enhance natural resources, and strengthen communities. The Macomb County Chamber's role in the Assessment Grant Project will consist of providing a network to communicate and advertise the Assessment Grant objectives, promoting inter-governmental collaboration, and educating and helping entrepreneurs in accessing and utilizing the grant funds.

The Macomb County Chamber of Commerce remains committed to improving regional economic conditions, and will continue to provide its resources to support Macomb County's Brownfield Redevelopment efforts.

Sincerely,
Grace Shore, Executive Director
Macomb County Chamber



Grace M. Shore, CEO
Macomb County Chamber • Macomb Foundation
Mount Clemens Office: 586•493•7600 Warren Office: 586•268•6430



Reserve your spot at one of our upcoming events!

June 8, Golf Outing, Gowanie Golf Club

June 12, State of Harrison Township

June 16, Member Mixer, Wolverine Harley Davidson

Visit www.macombcountychamber.com for more information.

December 15, 2015

Mr. Stephen N. Cassin, AICP Director
Macomb County Department of Planning & Economic Development
1 South Main, 7th Floor
Mt. Clemens, MI 48043

Dear Mr. Cassin:

Automation Alley is pleased to provide this letter of support for Macomb County's applications for the United States Environmental Protection Agency's (EPA) FY 2016 Brownfield Assessment and Brownfield Revolving Loan Fund Grants.

Automation Alley exists to promote and grow the innovation clusters that exist in Southeast Michigan. In 2003, Macomb County became the first regional Foundation Member of Automation Alley's nearly 1,000-member high-technology trade association. Together, Automation Alley and Macomb County have sought innovative ways to promote technology based economic development in our community. Program examples include seed funding for early stage high-tech companies, international trade with a focus on helping small and medium-sized companies to export their goods and services abroad and industry diversification with a focus on transitioning advanced manufacturing companies into the defense market.

If funded, Automation Alley commits to continuing this relationship and will seek all possible ways to add resources to support the success of these grants:

- Automation Alley will assist Macomb County with public outreach activities; contacting various stakeholder and citizen groups, providing informational materials and hosting outreach events
- Automation Alley will refer projects and clients to applicant for use of grant funds
- Automation Alley will provide outreach support in our electronic newsletter
- Automation Alley will commit what research, planning and/or technical assistance support we have available to Macomb County

Macomb County and Southeast Michigan as a whole are continuing to recover from the Great Recession. We are leaner and more diversified than our region has been in the past. Federal resources are warranted to continue to support of this endeavor and we strongly encourage the award of these FY 2016 EPA Brownfield Grants to Macomb County.

Sincerely,



Kenneth Rogers
Executive Director



Mr. Stephen Cassin
Executive Director
Macomb County Planning & Economic Development
One S. Main Street
7th Floor
Mt. Clemens, Michigan 48043

December 16, 2015

RE: Community Partnership Letter of Commitment for
U.S. EPA Brownfields Assessment and RLF Grants
Macomb County, Michigan

Dear Mr. Cassin:

The Clinton River Watershed Council is pleased to support your application for FY2016 U.S. Environmental Protection Agency (U.S. EPA) Brownfield Assessment and RLF Grants to assess and promote redevelopment of Brownfield sites within Macomb County's watersheds. We appreciate the opportunity to continue working with Macomb County as a community partner.

As you know, the Clinton River Watershed Council is a non-profit organization dedicated to protecting, enhancing and celebrating the Clinton River, its watershed and Lake St. Clair. Macomb County is located within the Clinton River Watershed. The river and its tributaries flow through 63 rural, suburban and urban communities with a total population of more than 1.5 million. The Clinton River Watershed Council has partnered with Macomb County to create a better environment to live, recreate, and conduct business.

The Clinton River Watershed Council's role in the grant can consist of various roles including:

- Attending kickoff and strategy meetings;
- Coordinating watershed and river cleanup projects and grant programs;
- Communicate existing funding programs with the County, for leveraging purposes; and
- Providing ideas for sustainable and alternative stormwater treatment and controls.

The Clinton River Watershed Council remains committed to improving regional environmental conditions, and will continue to provide its resources to support Macomb County's brownfield redevelopment efforts.

Sincerely,

Anne M. Vaara, Executive Director
Clinton River Watershed Council

December 15, 2015

Mr. Stephen N. Cassin, AICP Director
Macomb County Department of Planning & Economic Development
1 South Main, 7th Floor
Mt. Clemens, MI 48043

Dear Mr. Cassin:

Automation Alley is pleased to provide this letter of support for Macomb County's applications for the United States Environmental Protection Agency's (EPA) FY 2016 Brownfield Assessment and Brownfield Revolving Loan Fund Grants.

Automation Alley exists to promote and grow the innovation clusters that exist in Southeast Michigan. In 2003, Macomb County became the first regional Foundation Member of Automation Alley's nearly 1,000-member high-technology trade association. Together, Automation Alley and Macomb County have sought innovative ways to promote technology based economic development in our community. Program examples include seed funding for early stage high-tech companies, international trade with a focus on helping small and medium-sized companies to export their goods and services abroad and industry diversification with a focus on transitioning advanced manufacturing companies into the defense market.

If funded, Automation Alley commits to continuing this relationship and will seek all possible ways to add resources to support the success of these grants:

- Automation Alley will assist Macomb County with public outreach activities; contacting various stakeholder and citizen groups, providing informational materials and hosting outreach events
- Automation Alley will refer projects and clients to applicant for use of grant funds
- Automation Alley will provide outreach support in our electronic newsletter
- Automation Alley will commit what research, planning and/or technical assistance support we have available to Macomb County

Macomb County and Southeast Michigan as a whole are continuing to recover from the Great Recession. We are leaner and more diversified than our region has been in the past. Federal resources are warranted to continue to support of this endeavor and we strongly encourage the award of these FY 2016 EPA Brownfield Grants to Macomb County.

Sincerely,



Kenneth Rogers
Executive Director



December 15, 2015

Mr. Stephen Cassin
Executive Director
Macomb County Planning & Economic Development
One S. Main Street, 7th Floor
Mt. Clemens, Michigan 48043

RE: Community Partnership letter of Commitment for
U.S. EPA Brownfields Assessment & RLF Grants
Macomb County, Michigan


Dear Mr. Cassin:

Advancing Macomb is pleased to support your application for FY2016 U.S. Environmental Protection Agency (U.S. EPA) Brownfields Assessment/RLF Grants to assess and promote redevelopment of brownfield sites within Macomb County. We appreciate the opportunity to continue working with Macomb County as a community partner.

As you know, Advancing Macomb is a community resource organization that strengthens communities in Macomb County utilizing corporate, foundation, and nonprofit support. The vision of Advancing Macomb is to add value to the lives of Macomb County by creating a better environment to live, recreate, and conduct business. Our focus is to help drive economic development, enhance natural resources, and strengthen communities. Advancing Macomb's role in the EPA Grant Projects will consist of providing a network to communicate and advertise the Assessment and RLF Grant objectives, promoting intergovernmental collaboration, and educating and helping entrepreneurs in accessing and utilizing the grant funds.

The Board of Advancing Macomb is committed to improving regional economic conditions, and will continue to provide its resources to support Macomb County's brownfield redevelopment efforts.

Sincerely,

1  Melissa Roy
Executive Director

Application for Federal Assistance SF-424

* 1. Type of Submission:

- ☐ Preapplication
- ☒ Application
- ☐ Changed/Corrected Application

* 2. Type of Application:

- ☒ New
- ☐ Continuation
- ☐ Revision

* If Revision, select appropriate letter(s):

* Other (Specify):

* 3. Date Received:

12/18/2015

4. Applicant Identifier:

N/A

5a. Federal Entity Identifier:

N/A

5b. Federal Award Identifier:

State Use Only:

6. Date Received by State:

12/18/2015

7. State Application Identifier:

114788

8. APPLICANT INFORMATION:

* a. Legal Name:

MACOMB COUNTY

* b. Employer/Taxpayer Identification Number (EIN/TIN):

38-6004868

* c. Organizational DUNS:

0265447130000

d. Address:

* Street1:

ONE S. MAIN STREET

Street2:

* City:

MT. CLEMENS

County/Parish:

MACOMB

* State:

MI: Michigan

Province:

* Country:

USA: UNITED STATES

* Zip / Postal Code:

48043-2327

e. Organizational Unit:

Department Name:

PLANNING & ECONOMIC DEVELOPMNT

Division Name:

f. Name and contact information of person to be contacted on matters involving this application:

Prefix:

Mr.

* First Name:

STEVE

Middle Name:

* Last Name:

CASSIN

Suffix:

Title:

EXECUTIVE DIRECTOR OF PLANNING

Organizational Affiliation:

MACOMB COUNTY

* Telephone Number:

586-469-5285

Fax Number:

* Email:

steve.cassin@macombgov.org

Application for Federal Assistance SF-424

* 9. Type of Applicant 1: Select Applicant Type:

B: County Government

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

* Other (specify):

* 10. Name of Federal Agency:

Environmental Protection Agency

11. Catalog of Federal Domestic Assistance Number:

66.818

CFDA Title:

Brownfields Assessment and Cleanup Cooperative Agreements

* 12. Funding Opportunity Number:

EPA-OSWER-OBLR-15-04

* Title:

FY16 Guidelines for Brownfields Assessment Grants

13. Competition Identification Number:

Title:

14. Areas Affected by Project (Cities, Counties, States, etc.):

Add Attachment

Delete Attachment

View Attachment

* 15. Descriptive Title of Applicant's Project:

FY2016 USEPA BROWNFIELDS ASSESSMENT GRANT APPLICATION - MACOMB COUNTY, MICHIGAN

Attach supporting documents as specified in agency instructions.

Add Attachments

Delete Attachments

View Attachments

Application for Federal Assistance SF-424**16. Congressional Districts Of:*** a. Applicant * b. Program/Project

Attach an additional list of Program/Project Congressional Districts if needed.

17. Proposed Project:* a. Start Date: * b. End Date: **18. Estimated Funding (\$):**

* a. Federal	<input type="text" value="400,000.00"/>
* b. Applicant	<input type="text" value="80,000.00"/>
* c. State	<input type="text" value="0.00"/>
* d. Local	<input type="text" value="0.00"/>
* e. Other	<input type="text" value="0.00"/>
* f. Program Income	<input type="text" value="0.00"/>
* g. TOTAL	<input type="text" value="480,000.00"/>

*** 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

- ☒ a. This application was made available to the State under the Executive Order 12372 Process for review on .
- ☐ b. Program is subject to E.O. 12372 but has not been selected by the State for review.
- ☐ c. Program is not covered by E.O. 12372.

*** 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes," provide explanation in attachment.)**☐ Yes ☒ No

If "Yes", provide explanation and attach

21. *By signing this application, I certify (1) to the statements contained in the list of certifications and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)**

☒ ** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix:	<input type="text" value="Mr."/>	* First Name:	<input type="text" value="STEVE"/>
Middle Name:	<input type="text"/>		
* Last Name:	<input type="text" value="CASSIN"/>		
Suffix:	<input type="text"/>		

* Title: * Telephone Number: Fax Number: * Email: * Signature of Authorized Representative: * Date Signed: